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VIVAPRODUCTS

VIVAPRODUCTS, INC.
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MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PROCHEM, INC. 521 Great Road Littleton, MA 01460-1273		Phone: (978) 952-6285 Fax: (978) 952-6143	
Contact Telephone Numbers---Vivaproducts (8:00 am to 5:00 pm EST):			
United States	800-456-4633	International	978-952-6868
PRODUCT: BJP STATIC PROTEIN CONCENTRATORS (BJP 5, BJP 10, BJP 20)			
Product Numbers:	BJP-5/30, BJP-5/30P, BJP-5/40, BJP-5/40P, BJP-5/100, BJP-5/100P		
	BJP-10/30, BJP-10/30P, BJP-10/40, BJP-10/40P, BJP-10/100, BJP-10/100P		
	BJP-20/30, BJP-20/30P, BJP-20/100, BJP-20/100P		
MSDS Number:	V-1470	Issue Date:	May 19, 2011
Revision:	A	Revision Date:	May 19, 2011
Substance Identification			
Substance:	Plastic devices used to concentrate body fluids such as urine and spinal fluid for subsequent analysis by electrophoresis.		

SECTION 2 – COMPOSITION AND INFORMATION ON INGREDIENTS

NAME	CAS NUMBER	FUNCTION
Polyethersulfone Membrane	Not Available	Membrane to concentrate proteins
Glycerin	56-81-5	Membrane wetting agent
Sodium Azide	26628-22-8	Bacterial growth inhibitor
Diocetyl Sulfosuccinate Sodium	577-11-7	Membrane wetting agent
Acrylonitrile-Butadiene-Styrene Polymer	100-42-5	Housing

SECTION 3 – HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: Polyethersulfone membrane and absorbent pad encased in clear polymer housing.

Major Health Hazards: Under prescribed operating conditions, these devices do not present a health hazard.

Physical Hazards: Under prescribed operating conditions, these devices do not present a physical hazard.

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SECTION 4 – FIRST AID

- Ingestion: Under prescribed operating conditions, these devices do not present an ingestion hazard.
- Eyes: Under prescribed operating conditions, these devices are not expected to present an eye injury hazard due to their size and design.
- Skin: Skin allergic reactions due to contact with the housing components have not been reported.
- Inhalation: Under prescribed operating conditions, these devices do not present an inhalation hazard.

SECTION 5 – FIRE FIGHTING MEASURES

- Fire & Explosion Hazards: The polymer components of these devices will melt and/or decompose under fire conditions. Once ignited, the plastic materials will increase the fire intensity and may emit fumes, smoke particles and hazardous/toxic gases.
- Extinguishing Media: Water and ABC chemical extinguishers
- Large Fires: Flood with water. Apply water from a safe distance with proper personal protection.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- Spills & Leaks: These devices do not release materials to the environment when used under the proper operating conditions. The sodium azide, dioctyl sulfosuccinate sodium and glycerin, all of which are absorbed to the membrane, will not be released if the housing is broken. In case the housing is broken and the sample fluids are released, the biological spill should be contained and cleaned according to the type of fluid.

SECTION 7 – HANDLING AND STORAGE

- Handling & Storage: These devices should be stored in a dry environment at 4 to 30°C. Refrigerate all used units after first usage. A preservative may be added to previously used device chambers to inhibit bacterial growth. Units should be discarded if fungal growth is present (see Section 13).

SECTION 8 – PERSONAL PROTECTION AND EXPOSURE CONTROL

- Personal protection, Ventilation and Respirator Use: The personal protection, ventilation and respirator use should be performed in accordance to the procedures defined for the sample fluids being processed.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<u>Physical State:</u>	Solid
<u>Appearance:</u>	Molded plastic housing
<u>Color:</u>	Housing is clear and membrane is opaque white.
<u>Melting Point:</u>	This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.
<u>Auto Ignition:</u>	Auto ignition temperature is not available.
<u>Vapor Pressure:</u>	Negligible
<u>Water Solubility:</u>	Insoluble
<u>Evaporation Rate:</u>	Not applicable
<u>Specific Gravity:</u>	> 1 (water = 1)
<u>VOC Content:</u>	Negligible
<u>Explosive Limits:</u>	Upper and lower limits not determined.

SECTION 10 – STABILITY AND REACTIVITY

<u>Chemical Stability:</u>	Stable at normal temperature and pressure. Hazardous polymerization does not occur. If devices are rinsed with water prior to use, this solution may contain sodium azide and may decompose violently if heated to dryness.
<u>Conditions to Avoid:</u>	Avoid excessive heat which may cause thermal decomposition and/or the release of fumes and/or hazardous/toxic gases. If devices are rinsed with water prior to use, the solution may contain sodium azide which is reactive and incompatible with metals.
<u>Hazardous Decomposition Products:</u>	The decomposition products that will result from excessive heating and from fire/thermal decomposition will depend on several variables including temperature and the surrounding atmosphere. The possible products include, but are not limited to, the following: carbon dioxide, carbon monoxide, hydrocarbons, sulfur oxides, styrene, acrylonitrile, acrolein, acetaldehyde, acetophenone, ethyl benzene, hydrogen cyanide, alpha methyl styrene, 4-vinylcyclohexene, cumene and phenol.

SECTION 11 – TOXICOLOGICAL INFORMATION

<u>Routes of Entry:</u>	Under prescribed use of the housing, skin contact only. If devices are rinsed with water prior to use, the solution may contain sodium azide and glycerin which could also have skin or eye contact and may be ingested or inhaled. Below toxicity data is only in reference to these specified routes of entry.	
<u>Toxicity (Housing):</u>	Acute dermal toxicity (LD50)	> 2,000 mg/kg (estimated). Housing is not likely to cause skin irritation.
<u>Toxicity (Glycerin):</u>	Acute oral toxicity (LD50)	12,600 mg/kg (rat)
	Chronic effects on humans:	Not Available
	Other toxic effects on humans:	Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of eye contact or of inhalation.
	Special remarks on effects:	Not Available
<u>Toxicity (Sodium Azide):</u>	Acute oral toxicity (LD50)	27 mg/kg (mouse)
	Acute dermal toxicity (LD50)	20 mg/kg (rabbit)
	Chronic effects on humans:	Not Available
	Other toxic effects on humans:	Very hazardous in case of skin contact (irritant) Hazardous in case of ingestion, of inhalation Slightly hazardous in case of skin contact (permeator)
	Special remarks on effects:	Not Available

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity and BOD5 & COD: The polymer housing is expected to have no ecotoxicity, BOD5 or COD impact under normal usage. If devices are rinsed with water prior to use, the solution may contain sodium azide and glycerin. This rinse solution has no available information on ecotoxicity, BOD5 or COD.

Products of Biodegradation: The polymer housing is expected to have very limited biodegradation under normal conditions. If devices are rinsed with water prior to use, the solution may contain sodium azide and glycerin. Possible hazardous short/long term degradation products are to be expected from this rinse solution. The products of degradation are more toxic.

SECTION 13 – DISPOSAL INFORMATION

Disposal: Recycling is encouraged if allowed by federal, state and local regulations. Waste disposal should be carried out according to federal, state and local regulations. If devices are rinsed with water prior to use, the solution may contain sodium azide and glycerin. Disposal of this rinse solution may be regulated differently and should be reviewed with your facility's environmental department. Please refer to other sections for more details on this solution. After use, these devices may contain biological materials which may be regulated differently and should be reviewed with your facility's environmental department for proper disposal.

SECTION 14 – TRANSPORTATION INFORMATION

Transportation: The transportation of these devices is not regulated as hazardous for shipment under current guidelines. However, after use, these devices may contain biological materials which may be regulated differently and should be reviewed with your facility's environmental department for proper disposal.

SECTION 15 – REGULATORY INFORMATION

Regulatory: All device components and materials of construction are listed on the USEPA Toxic Substances Control Act (TSCA) Inventory or covered by the Polymer Exemption of the Act.

SECTION 16 – OTHER INFORMATION

Disclaimer: This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Prochem, Inc. and Vivaproducts, Inc at the current time and relies on information from the MSD Sheets of other manufacturers. The information is subject to change as new information becomes available. The information in this MSDS relates only to the specific materials designated herein. Prochem, Inc. and Vivaproducts, Inc. assumes no legal responsibility for the use of or reliance upon the information contained in this MSDS and assumes no liability for any loss or injury which may result from the use of this information. All users should conduct their own investigations to identify the accuracy of this information as it pertains to their own specific application and their conditions of use. It is also the responsibility of the user to develop methods of handling and personal protection based on their conditions of use.